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## **Application Data Sheet**

### **Application Information**

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Application number:: 09/930,020  
Filing Date:: 08/14/01  
Application Type:: Regular  
Subject Matter:: Utility  
Suggested classification::  
Suggested Group Art Unit::  
CD-ROM or CD-R??::  
Number of CD disks::  
Number of copies of CDs::  
Sequence Submission::  
Computer Readable Form (CRF)?::  
Number of copies of CRF::  
Title:: Methods of Diagnosis of Colorectal Cancer,  
Compositions and Methods of Screening for  
Colorectal Cancer Modulators  
Attorney Docket Number:: 018501-003100US  
Request for Early Publication:: No  
Request for Non-Publication:: No  
Suggested Drawing Figure::  
Total Drawing Sheets:: 0  
Small Entity?:: Yes  
Latin name::  
Variety denomination name::  
Petition included?:: No  
Petition Type::  
Licensed US Govt. Agency::  
Contract or Grant Numbers One::  
Secrecy Order in Parent Appl.: No

### **Applicant Information**

Applicant Authority Type:: Inventor  
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State or Province of Residence:: CA  
Country of Residence:: US  
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City of Mailing Address:: San Francisco  
State or Province of mailing address:: CA  
Country of mailing address:: US  
Postal or Zip Code of mailing address:: 94131

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City of Mailing Address:: Menlo Park  
State or Province of mailing address:: CA  
Country of mailing address:: US  
Postal or Zip Code of mailing address:: 94025

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Family Name:: Wilson  
Name Suffix::  
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State or Province of Residence:: CA  
Country of Residence:: US  
Street of Mailing Address:: 219 Jeter Street  
City of Mailing Address:: Redwood City  
State or Province of mailing address:: CA  
Country of mailing address:: US  
Postal or Zip Code of mailing address:: 94062

#### **Correspondence Information**

Correspondence Customer Number:: 20350

#### **Representative Information**

Representative Customer Number:: 20350

#### **Domestic Priority Information**

Application::	Continuity Type::	Parent Application::	Parent Filing Date::
09/633,733	CIP	Utility	September 15, 2000

#### **Foreign Priority Information**

Country::	Application number::	Filing Date::
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### Assignee Information

Assignee Name:: Eos Biotechnology, Inc.  
Street of mailing address:: 225A Gateway Boulevard  
City of mailing address:: South San Francisco  
State or Province of mailing address:: California  
Country of mailing address:: USA  
Postal or Zip Code of mailing address:: 94080

UNITED STATES PATENT AND TRADEMARK OFFICE  
DOCUMENT CLASSIFICATION BARCODE SHEET



# Preliminary Amendments

3

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Box Missing Parts, Assistant Commissioner for Patents, Washington, D.C. 20231

PATENT  
Attorney Docket No.: 018501-003100US  
Client Ref. No.: COCA 007-1

On November 9, 2001

TOWNSEND and TOWNSEND and CREW LLP

By: Jill R. Clarke  
Jill R. Clarke

COPY OF PAPERS  
ORIGINALLY FILED

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

GISH *et al.*

Application No.: 09/930,020

Filed: August 14, 2001

For: METHODS OF DIAGNOSIS OF  
COLORECTAL CANCER,  
COMPOSITIONS AND METHODS OF  
SCREENING FOR COLORECTAL  
CANCER MODULATORS

Examiner: Not yet assigned

Art Unit: 1642

COMMUNICATION UNDER

37 C.F.R. §§ 1.821-1.825

AND

PRELIMINARY AMENDMENT

Box SEQUENCE  
Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

In response to the request to comply with Requirements for Patent Applications Containing Nucleotide Sequence and/or Amino Acid Sequence Disclosures, 37 C.F.R. §§ 1.821-1.825, that accompanied the Notice to File Missing Parts of Nonprovisional Application mailed September 13, 2001, Applicants submit herewith the required paper copy and computer readable copy of the Sequence Listing. Please amend the specification as follows.

**In the Specification:**

Please replace paragraph [45] beginning at page 13, line 9 with the following:

--[45] The extracellular domains of transmembrane proteins are diverse; however, conserved motifs are found repeatedly among various extracellular domains. Conserved structure and/or functions have been ascribed to different extracellular motifs. For example, cytokine receptors are characterized by a cluster of cysteines and a WSXWS (SEQ ID NO:3) (W= tryptophan, S= serine, X=any amino acid) motif. Immunoglobulin-like domains are highly conserved. Mucin-like domains may be involved in cell adhesion and leucine-rich repeats participate in protein-protein interactions.--

Please replace the paragraph (TABLE 2) beginning at page 96, line 5 with the following:

**--TABLE 2 CBF9 DNA and Protein Sequences**

**CBF9 DNA sequence (SEQ ID NO:1)**

Gene name: ESTs  
Unigene number: Hs.157601  
Probeset Accession #: W07459  
Nucleic Acid Accession #: AC005383  
Coding Sequence: 328-2751 (underlined sequences correspond to start and stop codons)

1	11	21	31	41	51	
GACAGTGTTC	GCGGCTGCAC	CGCTCGGAGG	CTGGGTGACC	CGCGTAGAAG	TGAAGTACTT	60
TTTTATTTCG	AGACCTGGGC	CGATGCCGCT	TTAAAAAACG	CGAGGGGCTC	TATGCACCTC	120
CCTGGCGGTA	GTTCCTCCGA	CCTCAGCCGG	GTCGGGTCTG	GCCGCCCTCT	CCCAGGAGAG	180
ACAAACAGGT	GTCCCACGTG	GCAGCCGCGC	CCCGGGCGCC	CCTCCTGTGA	TCCCGTAGCG	240
CCCCCTGGCC	CGAGCCGCGC	CCGGGTCTGT	GAGTAGAGCC	GCCCGGGCAC	CGAGCGCTGG	300
TCGCCGCTCT	CCTTCCGTTA	TATCAACATG	CCCCCTTTCC	TGTTGCTGGA	GGCCGTCTGT	360
GTTTTCTCTG	TTTCCAGAGT	GCCCCATCT	CTCCCTCTCC	AGGAAGTCCA	TGTAAGCAAA	420
GAAACCATCG	GGAAGATTTC	AGCTGCCAGC	AAAATGATGT	GGTGCTCGGC	TGCAGTGGAC	480
ATCATGTTTC	TGTTAGATGG	GTCTAACAGC	GTCGGGAAAG	GGAGCTTTGA	AAGGTCCAAG	540
CACTTTGCCA	TCACAGTCTG	TGACGGTCTG	GACATCAGCC	CCGAGAGGGT	CAGAGTGGGA	600
GCATTCCAGT	TCAGTTCCAC	TCCTCATCTG	GAATTCCCT	TGGATTCATT	TTCAACCCAA	660
CAGGAAGTGA	AGGCAAGAAT	CAAGAGGATG	GTTTTCAAAG	GAGGGCGCAC	GGAGACGGAA	720
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CAGATCCTCA	TCATCGTCAC	TGATGGGAAG	TCCCAGGGGG	ATGTGGCACT	GCCATCCAAG	840
CAGCTGAAGG	AAAGGGGTGT	CACTGTGTTT	GCTGTGGGGG	TCAGGTTTCC	CAGGTGGGAG	900
GAGCTGCATG	CACTGECGAC	CGAGCCTAGA	GGGCAGCAGC	TGCTGTTGGC	TGAGCAGGTG	960
GAGGATGCCA	CCAACGGCCT	CTTCAGCACC	CTCAGCAGCT	CGGCCATCTG	CTCCAGCGCC	1020
ACGCCAGACT	GCAGGGTCTG	GGCTCACCCC	TGTGAGCACA	GGACGCTGGA	GATGGTCCGG	1080
GAGTTGCTG	GCAATGCCCC	ATGCTGGAGA	GGATCGCGGC	GGACCCTTGC	GGTGCTGGCT	1140
GCACACTGTC	CCTTCTACAG	CTGGAAGAGA	GTGTTCTTAA	CCCACCCTGC	CACCTGCTAC	1200
AGGACCACCT	GCCCAGGCCC	CTGTGACTCG	CAGCCCTGCC	AGAATGGAGG	CACATGTGTT	1260
CCAGAAGGAC	TGGACGGCTA	CCAGTGCCTC	TGCCCCGTGG	CCTTTGGAGG	GGAGGCTAAC	1320
TGTGCCCTGA	AGCTGAGCCT	GGAATGCAGG	GTCGACCTCC	TCTTCCTGCT	GGACAGCTCT	1380
GCGGGCACCA	CTCTGGACGG	CTTCCTGCGG	GCCAAAGTCT	TCGTGAAGCG	GTTTGTGCGG	1440
GCCGTGCTGA	GCGAGGACTC	TCGGGCCCGA	GTGGGTGTGG	CCACATACAG	CAGGGAGCTG	1500
CTGGTGGCGG	TGCCTGTGGG	GGAGTACCAG	GATGTGCCTG	ACCTGGTCTG	GAGCCTCGAT	1560
GGCATTCCCT	TCCGTGGTGG	CCCCACCCTG	ACGGGCAGTG	CCTTGCGGCA	GGCGGCAGAG	1620
CGTGCTTCG	GGAGCGCCAC	CAGGACAGGC	CAGGACCGGC	CACGTAGAGT	GGTGGTTTTG	1680
CTCACTGAGT	CACACTCCGA	GGATGAGGTT	GCGGGCCAG	CGCGTCACGC	AAGGGCGCGA	1740
GAGCTGCTCC	TGCTGGGTGT	AGGCAGTGAG	GCCGTGCGGG	CAGAGCTGGA	GGAGATCACA	1800
GGCAGCCCAA	AGCATGTGAT	GGTCTACTCG	GATCCTCAGG	ATCTGTTCAA	CCAAATCCCT	1860
GAGCTGCAGG	GGAAGCTGTG	CAGCCGGCAG	CGGCCAGGGT	GCCGGACACA	AGCCCTGGAC	1920
CTCGTCTTCA	TGTTGGACAC	CTCTGCCTCA	GTAGGGCCCC	AGAATTTTGC	TCAGATGCAG	1980
AGCTTTGTGA	GAAGCTGTGC	CCTCCAGTTT	GAGGTGAACC	CTGACGTGAC	ACAGGTGCGC	2040
CTGGTGGTGT	ATGGCAGCCA	GGTGCAGACT	GCCTTCGGGC	TGGACACCAA	ACCCACCCGG	2100
GCTGCGATGC	TGCGGGCCAT	TAGCCAGGCC	CCCTACCTAG	GTGGGGTGGG	CTCAGCCGGC	2160
ACCGCCCTGC	TGCACATCTA	TGACAAAGTG	ATGACCGTCC	AGAGGGGTGC	CCGGCCTGGT	2220



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GTCCCCAAG CTGTGGTGGT GCTCACAGGC GGGAGAGGCG CAGAGGATGC AGCCGTTCTT 2280
GCCCAGAAGC TGAGGAACAA TGGCATCTCT GTCTTGGTCG TGGGCGTGGG GCCTGTCCTA 2340
AGTGAGGGTC TGCGGAGGCT TGCAGGTCCC CGGGATTCCC TGATCCACGT GGCAGCTTAC 2400
GCCGACCTGC GGTACCACCA GGACGTGCTC ATTGAGTGGC TGTGTGGAGA AGCCAAGCAG 2460
CCAGTCAACC TCTGCAAACC CAGCCCGTGC ATGAATGAGG GCAGCTGCGT CCTGCAGAAT 2520
GGGAGCTACC GCTGCAAGTG TCGGGATGGC TGGGAGGGCC CCCACTGCGA GAACCGTGAG 2580
TGGAGCTCTT GCTCTGTATG TGTGAGCCAG GGATGGATTG TTGAGACGCC CCTGAGGCAC 2640
ATGGCTCCCG TGCAGGAGGG CAGCAGCCGT ACCCTCCCA GCAACTACAG AGAAGGCCTG 2700
GGCACTGAAA TGGTGCCTAC CTTCTGGAAT GTCTGTGCCC CAGGTCCTTA GAATGTCTGC 2760
TTCCCGCGCT GGCCAGGACC ACTATTCTCA CTGAGGGAGG AGGATGTCCC AACTGCAGCC 2820
ATGCTGCTTA GAGACAAGAA AGCAGCTGAT GTCACCCACA AACGATGTTG TTGAAAAGTT 2880
TTGATGTGTA AGTAAATACC CACTTCTGTG ACCTGCTGTG CCTTGTTGAG GCTATGTCAT 2940
CTGCCACCTT TCCCTTGAGG ATAAACAAGG GGTCTGAAG ACTTAAATTT AGCGGCCTGA 3000
CGTTCCCTTG CACACAATCA ATGCTCGCCA GAATGTTGTT GACACAGTAA TGCCCGAGCAG 3060
AGGCCTTTAC TAGAGCATCC TTTGACGGC GAAGGCCACG GCCTTTCAAG ATGGAAGCA 3120
GCAGCTTTTC CACTTCCCCA GAGACATTCT GGATGCATTG GCATTGAGTC TGAAAGGGGG 3180
CTTGAGGGAC GTTTGTGACT TCTTGGCGAC TGCCTTTTGT GTGTGGAAGA GACTTGGAAA 3240
GGTCTCAGAC TGAATGTGAC CAATTAACCA GCTTGTTGA TGATGGGGGA GGGGCTGAGT 3300
TGTGCATGGG CCCAGGTCTG GAGGGCCACG TAAAATCGTT CTGAGTCGTG AGCAGTGTCC 3360
ACCTTGAAGG TCTTC
```

**CBF9 Protein sequence (SEQ ID NO:2)**

Gene name: ESTs  
Unigene number: Hs.157601

Protein Accession #: none found

Signal sequence: 1-17  
Transmembrane domains: none found  
VGW domains: 49-223; 341-518; 529-706  
EGF domains: 298-333; 715-748  
Cellular Localization: plasma membrane

```
1      11      21      31      41      51
|      |      |      |      |      |
MPPFLLLEAV CVFLFSRVPP SLPLQEVHVS KETIGKISAA SKMMWCSAAV DIMFLLDGSN 60
SVGKGSFERS KHFAITVCDG LDISPERVRV GAFQFSSTPH LEFPLDSFST QQEVKARIKR 120
MVFKGGRTE T ELALKYLLHR GLPGGRNASV PQILIIIVTDG KSQGDVALPS KQLKERGVTV 180
FAVGVRFP RW EELHALASEP RGQHVLLAEQ VEDATNGLFS TLSSSAICSS ATPDCRVEAH 240
PCEHRTLEMV REFAGNAPCW RGSRRTLAVL AAHCPFYSWK RVFLTHPATC YRTTCPGPCD 300
SQPCQNGGTC VPEGLDGYQC LCPLAFGGEA NCALKLSLEC RVDLLFLLDS SAGTTLDGFL 360
RAKVVFVKRFV RAVLSEDSRA RVGVATYSRE LLVAVPVGEY QDVPDLVWSL DGIPFRGGPT 420
LTGSALRQAA ERGFGSATRT QQDRPRRVVV LLTESHSEDE VAGPARHARA RELLLLGVGS 480
EAVRAELEEEI TGSPKHMVYV SDPQDLFNQI PELQKLC SR QRP GCRTQAL DLVFM LDTSA 540
SVGPENFAQM QS FVRSCALQ FEVNP DVTQV GLV VYG SQVQ TAFGLDTKPT RAAMLRAISQ 600
APYLGGVGS A GTALLHIYDK VMTVQRGARP GVPKAVVVL T GGRGAEDAAV PAQKL RNNGI 660
SVLVVGVGPV LSEGLRRLAG PRDSL I HVAA YADLRYHQDV LIEWLCGEAK QPVNLCKPSP 720
CMNEGSCVLQ NGSYRCKCRD GWEGPHCENR EWSSCSVCVS QGWILETPLR HMAPVQEGSS 780
RTPPSNYREG LGTEMVPTFW NVCAPGP
```

Please insert the accompanying paper copy of the Sequence Listing, page numbers 1 to 4, at the end of the application.

REMARKS

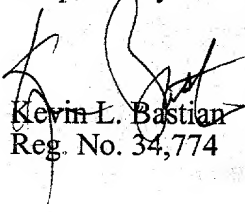
Applicants request entry of this amendment in adherence with 37 C.F.R. §§1.821 to 1.825. This amendment is accompanied by a floppy disk containing the above named sequences, SEQ ID NOS:1-3, in computer readable form, and a paper copy of the sequence information which has been printed from the floppy disk.

The information contained in the computer readable disk was prepared through the use of the software program "PatentIn" and is identical to that of the paper copy. This amendment contains no new matter.

Attached hereto is a marked-up version of the changes made to the Specification and Abstract by the current Amendment. The attached pages are captioned **"VERSION WITH MARKINGS TO SHOW CHANGES MADE."**

If the Examiner believes a telephone conference would expedite prosecution of this application, please telephone the undersigned at 415-576-0200.

Respectfully submitted,

  
Kevin L. Bastian  
Reg. No. 34,774

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KLB:dmw

**VERSION WITH MARKINGS TO SHOW CHANGES MADE**

**In the Specification:**

Paragraph [45] beginning at line 23 of page 6 has been amended as follows:

[45] The extracellular domains of transmembrane proteins are diverse; however, conserved motifs are found repeatedly among various extracellular domains. Conserved structure and/or functions have been ascribed to different extracellular motifs. For example, cytokine receptors are characterized by a cluster of cysteines and a WSXWS (SEQ ID NO:3) (W= tryptophan, S= serine, X=any amino acid) motif. Immunoglobulin-like domains are highly conserved. Mucin-like domains may be involved in cell adhesion and leucine-rich repeats participate in protein-protein interactions.

Paragraph (TABLE 2) beginning at line 5 of page 96 has been amended as follows:

**TABLE 2 CBF9 DNA and Protein Sequences**

**CBF9 DNA sequence (SEQ ID NO:1)**

Gene name: ESTs  
Unigene number: Hs.157601  
Probeset Accession #: W07459  
Nucleic Acid Accession #: AC005383  
Coding Sequence: 328-2751 (underlined sequences correspond to start and stop codons)

1	11	21	31	41	51	
GACAGTGTTC	GCGGCTGCAC	CGCTCGGAGG	CTGGGTGACC	CGCGTAGAAG	TGAAGTACTT	60
TTTTATTTGC	AGACCTGGGC	CGATGCCGCT	TTAAAAACG	CGAGGGGCTC	TATGCACCTC	120
CCTGGCGGTA	GTTCCTCCGA	CCTCAGCCGG	GTCGGGTCGT	GCCGCCCTCT	CCCAGGAGAG	180
ACAAACAGGT	GTCCCACGTG	GCAGCCGCGC	CCCGGGCGCC	CCTCCTGTGA	TCCCGTAGCG	240
CCCCCTGGCC	CGAGCCGCGC	CCGGTCTGT	GAGTAGAGCC	GCCCGGCAC	CGAGCGCTGG	300
TCGCCGCTCT	CCTTCCGTTA	TATCAACATG	CCCCCTTCC	TGTTGCTGGA	GGCCGTCTGT	360
GTTTCTCTGT	TTTCCAGAGT	GCCCCATCT	CTCCCTCTCC	AGGAAGTCCA	TGTAAGCAAA	420
GAAACCATCG	GGAAGATTTC	AGCTGCCAGC	AAAATGATGT	GGTGCTCGGC	TGCAGTGGAC	480
ATCATGTTTC	TGTTAGATGG	GTCTAACAGC	GTCGGGAAAG	GGAGCTTTGA	AAGGTCCAAG	540
CACTTTGCCA	TCACAGTCTG	TGACGGTCTG	GACATCAGCC	CCGAGAGGGT	CAGAGTGGGA	600
GCATTCCAGT	TCAGTTCCAC	TCCTCATCTG	GAATTCCTCT	TGGATTCATT	TTCAACCCAA	660
CAGGAAGTGA	AGGCAAGAAT	CAAGAGGATG	GTTTTCAAAG	GAGGGCGCAC	GGAGACGGAA	720
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CAGCTGAAGG	AAAGGGGTGT	CACTGTGTTT	GCTGTGGGGG	TCAGGTTTCC	CAGGTGGGAG	900
GAGCTGCATG	CACTGGCCAG	CGAGCCTAGA	GGGCAGCACG	TGCTGTTGGC	TGAGCAGGTG	960
GAGGATGCCA	CCAACGGCCT	CTTCAGCACC	CTCAGCAGCT	CGGCCATCTG	CTCCAGCGCC	1020
ACGCCAGACT	GCAGGGTCGA	GGCTCACCCC	TGTGAGCACA	GGACGCTGGA	GATGGTCCGG	1080
GAGTTGCTG	GCAATGCCCC	ATGCTGGAGA	GGATCGCGGC	GGACCCCTGC	GGTGCTGGCT	1140
GCACACTGTC	CCTTCTACAG	CTGGAAGAGA	GTGTTCTTAA	CCCACCCTGC	CACCTGCTAC	1200
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GCGGGCACCA	CTCTGGACGG	CTTCCTGCGG	GCCAAAGTCT	TCGTGAAGCG	GTTTGTGCGG	1440
GCCGTGCTGA	GCGAGGACTC	TCGGGCCCGA	GTGGGTGTGG	CCACATACAG	CAGGGAGCTG	1500
CTGGTGGCGG	TGCCTGTGGG	GGAGTACCAG	GATGTGCCTG	ACCTGGTCTG	GAGCCTCGAT	1560
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GAGCTGCTCC	TGCTGGGTGT	AGGCAGTGAG	GCCGTGCGGG	CAGAGCTGGA	GGAGATCACA	1800
GGCAGCCCAA	AGCATGTGAT	GGTCTACTCG	GATCCTCAGG	ATCTGTTCAA	CCAAATCCCT	1860
GAGCTGCAGG	GGAAGCTGTG	CAGCCGCGAG	CGCCAGGGT	GCCGGACACA	AGCCCTGGAG	1920
CTCGTCTTCA	TGTTGGACAC	CTCTGCCTCA	GTAGGGCCCC	AGAATTTTGC	TCAGATGCAG	1980
AGCTTTGTGA	GAAGCTGTGC	CCTCCAGTTT	GAGGTGAACC	CTGACGTGAC	ACAGGTCCGC	2040
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GCTGCGATGC	TGCGGGCCAT	TAGCCAGGCC	CCCTACCTAG	GTGGGGTGGG	CTCAGCCGGC	2160
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GCCCAGAAGC TGAGGAACAA TGGCATCTCT GTCTTGGTCG TGGGCGTGGG GCCTGTCTTA 2340
AGTGAGGGTC TGCGGAGGCT TGCAGGTCCC CGGGATTCCC TGATCCACGT GGCAGCTTAC 2400
GCCGACCTGC GGTACCACCA GGACGTGCTC ATTGAGTGGC TGTGTGGAGA AGCCAAGCAG 2460
CCAGTCAACC TCTGCAAACC CAGCCCCGTC ATGAATGAGG GCAGCTGCGT CCTGCAGAAT 2520
GGGAGCTACC GCTGCAAGTG TCGGGATGGC TGGGAGGGCC CCCACTGCGA GAACCGTGAG 2580
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ATGGCTCCCG TGCAGGAGGG CAGCAGCCGT ACCCTCCCA GCAACTACAG AGAAGGCCTG 2700
GGCACTGAAA TGGTGCCTAC CTTCTGGAAT GTCTGTGCCC CAGGTCCCTA GAATGTCTGC 2760
TTCCCGCCGT GGCCAGGACC ACTATTCTCA CTGAGGGAGG AGGATGTCCC AACTGCAGCC 2820
ATGCTGCTTA GAGACAAGAA AGCAGCTGAT GTCACCCACA AACGATGTTG TTGAAAAGTT 2880
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GGTCTCAGAC TGAATGTGAC CAATTAACCA GCTTGTTTGA TGATGGGGGA GGGGCTGAGT 3300
TGTGCATGGG CCCAGGCTG GAGGGCCACG TAAAATCGTT CTGAGTCGTG AGCAGTGTCC 3360
ACCTTGAAGG TCTTC
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CBF9 Protein sequence (SEQ ID NO:2)

Gene name: ESTs  
Unigene number: Hs.157601

Protein Accession #: none found

Signal sequence: 1-17  
Transmembrane domains: none found  
VGW domains: 49-223; 341-518; 529-706  
EGF domains: 298-333; 715-748  
Cellular Localization: plasma membrane

```
1      11      21      31      41      51
|      |      |      |      |      |
MPPFLLLEAV CVFLFSRVPP SLPLQEVHVS KETIGKISAA SKMMWCSAAV DIMFLLDGSN 60
SVGKGSFERS KHFAITVCDG LDISPERVRV GAFQFSSTPH LEFPLDSFST QQEVKARIKR 120
MVFKGGRTEF ELALKYLLHR GLPGGRNASV PQILIIIVTDG KSQGDVALPS KQLKERGVTV 180
FAVGVRFPWR EELHALASEP RQHVLLAEQ VEDATNGLFS TLSSSAICSS ATPDCRVEAH 240
PCEHRTLEMV REFAGNAPCW RGSRRTLAVL AAHCPFYSWK RVFLTHPATC YRTTCPGPCD 300
SQPCQNGGTC VPEGLDGYQC LCPLAFGGEA NCALKLSLEC RVDLLFLLDS SAGTTLDGFL 360
RAKVFVKRFV RAVLSEDSRA RVGVATYSRE LLVAVPVGEY QDVPDLVWSL DGIPFRGGPT 420
LTGSALRQAA ERGFGSATRT GQDRPRRVVV LLTESHSEDE VAGPARHARA RELLLLGVGS 480
EAVRAELEEI TGSPKHMVYV SDPQDLFNQI PELQKLCSSR QRPQCRTQAL DLVFMLDTSA 540
SVGPENFAQM QSFVRSCALQ FEVNPVDTQV GLVVYGSQVQ TAFGLDTKPT RAAMLRAISQ 600
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RTPPSNYREG LGTEMVPTFW NVCAPGP
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